

The Peer To Peer Component Framework is a software framework that allows components to be instantiated on network nodes that satisfy required runtime conditions at the time of their instantiation. The thesis presents the Framework design together with its prototype implementation. From the Framework's point of view, a component is a piece of executable software. Therefore the instantiation of a component on a network node constitutes a remote code execution, which is a security issue. Because the aim of the Framework is to be practically usefull, it provides a way to use existing security software for this matter. Above all, the Framework design requirements and its prototype implementation are driven by use cases. The two main use cases are also presented in the thesis.